

## HALF-LIFE PROBLEMS

Name \_\_\_\_\_ Block \_\_\_\_\_

1. An isotope of cesium (cesium-137) has a half-life of 30 years. If 1.0 g of cesium-137 disintegrates over a period of 90 years, how many g of cesium-137 would remain?

$$\frac{90}{30} = 3 \text{ } \frac{1}{2}$$

$\begin{pmatrix} 1.5 \\ 0.5 \\ 2.5 \\ 1.25 \end{pmatrix} g$

2. Actinium-226 has a half-life of 29 hours. If 100 mg of actinium-226 disintegrates over a period of 58 hours, how many mg of actinium-226 will remain?

58-2-44

100  
50  
25

3. Sodium-25 was to be used in an experiment, but it took 3.0 minutes to get the sodium from the reactor to the laboratory. If 5.0 mg of sodium-25 was removed from the reactor, how many mg of sodium-25 were placed in the reaction vessel 3.0 minutes later if the half-life of sodium-25 is 60 seconds?

$$\frac{3.0}{1.0} = 3.0$$

$\left\{ \begin{array}{l} 5 \text{ mg} \\ 2.5 \\ 1.25 \\ 0.625 \text{ mg} \end{array} \right.$

4. The half-life of isotope X is 2.0 years. How many years would it take for a 4.0 mg sample of X to decay and have only 0.50 mg of it remain?

$$3 \times 2.0 \text{ yr} = 6 \text{ yr}$$

4.00  
2.00  
1.00  
5.00 } 3 h-L

5. Selenium-83 has a half-life of 25.0 minutes. How many minutes would it take for a 10.0 mg sample to decay and have only 1.25 mg of it remain?

$$3 \times 25 = 75 \text{ mi}$$

1.25 3 h.L

6. The half-life of Po-218 is three minutes. How much of a 2.0 gram sample remains after 15 minutes? Suppose you wanted to buy some of this isotope, and it required half an hour for it reach you. How much should you order if you need to use 0.10 gram of this material?

5. chd

2.3  
1.5  
2.2  
1.25  
1.0625

30m, 10 h.f.

$10 \text{ k.f}$

$\cdot 1 \times 2 \times 2 \times 2 \times 2 = 2 \times 2 \times 2 = 2 \times 2 \times 2$

$102.4 \text{ g}$

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**M Walker**



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### **Table of Contents Physical Science If8767 Pg 1 answers Half Life**

1. Understanding the eBook Physical Science If8767 Pg 1 answers Half Life
  - The Rise of Digital Reading Physical Science If8767 Pg 1 answers Half Life
  - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science If8767 Pg 1 answers Half Life
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Physical Science If8767 Pg 1 answers Half Life
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science If8767 Pg 1 answers Half Life
  - Personalized Recommendations

- Physical Science If8767 Pg 1 answers Half Life User Reviews and Ratings
- Physical Science If8767 Pg 1 answers Half Life and Bestseller Lists
- 5. Accessing Physical Science If8767 Pg 1 answers Half Life Free and Paid eBooks
  - Physical Science If8767 Pg 1 answers Half Life Public Domain eBooks
  - Physical Science If8767 Pg 1 answers Half Life eBook Subscription Services
  - Physical Science If8767 Pg 1 answers Half Life Budget-Friendly Options
- 6. Navigating Physical Science If8767 Pg 1 answers Half Life eBook Formats
  - ePub, PDF, MOBI, and More
  - Physical Science If8767 Pg 1 answers Half Life Compatibility with Devices
  - Physical Science If8767 Pg 1 answers Half Life Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Physical Science If8767 Pg 1 answers Half Life
  - Highlighting and Note-Taking Physical Science If8767 Pg 1 answers Half Life
  - Interactive Elements Physical Science If8767 Pg 1 answers Half Life
- 8. Staying Engaged with Physical Science If8767 Pg 1 answers Half Life
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Physical Science If8767 Pg 1 answers Half Life
- 9. Balancing eBooks and Physical Books Physical Science If8767 Pg 1 answers Half Life
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Physical Science If8767 Pg 1 answers Half Life
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Physical Science If8767 Pg 1 answers Half Life
  - Setting Reading Goals Physical Science If8767 Pg 1 answers Half Life
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Science If8767 Pg 1 answers Half Life
  - Fact-Checking eBook Content of Physical Science If8767 Pg 1 answers Half Life

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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